REMARKS

As a preliminary, Applicant and Applicant's representative thank the Examiner for the

interview of August 1, 2008.

By the present amendment:

Claim 1 has been amended to delete "two-dimensional" and replace "the appearance of a

three-dimensional image" by "a 3D effect" (corresponding to language in original claim

1), and further, to specify that the 3D effect is a "relief and volume effect" (based on the

description at page 3, line 12), which is achieved by the "accurate printing registration of

the respective sets of lines on the front and reverse side" (based on the description at page

5, lines 32-33);

Claim 2 has been amended to reintroduce a recitation that "the 3D effect is created by the

lines being of variable density and/or variable printing intensity" (as recited in original

claim 2);

· Claim 6 has been amended to replace "the lines are alternately on the front side and on

the reverse side" by "the lines of the image are printed such that two adjacent lines of the

image are always such that one of the lines is on one side and the next line is on the

reverse side" (based on the description at page 3, lines 31-33);

· Accordingly, claim 21 ("alternate successively") has been canceled;

New claims 28-29 dependent on claims 1 and 2, respectively, have been added to recite

that the first set of lines and the second set of lines complement each other to constitute

the image so that the image with a 3D effect is visible when observed in transmitted light

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but not when observed in reflected light (based on description of first variant at page 5,

lines 20-22; it is submitted that the expression "but not when observed in reflected light"

is inherent from the description as immediately understood by the person of the art, i.e.,

since the image is "constituted" by the combination of both sets of lines, the image

cannot be visible when the lines on the reverse side are not seen);

New claims 30-31 dependent on claim 1 and 2, respectively, have been added to recite

that the first set of lines and the second set of lines are in precise superposition so that the

image with a 3D effect is visible when observed in reflected light and in transmitted light

(based on description of the second variant at page 6, lines 15-21).

Claims 1-3, 5-8, 11-12, 15-17, and 22-31 are pending in the present application. Claim 1

is the only independent claim.

Lack of written description rejection

In the Office Action, claims 1-3, 5-8, 11-12, 15-17, and 21-27 are rejected under 35

U.S.C. 112, first paragraph, as lacking written description.

Reconsideration and withdrawal of the rejection is respectfully requested. Claim 1 has

been amended to delete "two-dimensional" and replace "the appearance of a three-dimensional

image" by "a 3D effect" (corresponding to language in original claim 1), and further, to specify

that the 3D effect is a "relief and volume effect" (based on the description at page 3, line 12),

which is achieved by the "accurate printing registration of the respective sets of lines on the front

and reverse side" (based on the description at page 5, lines 32-33). Accordingly, it is submitted

that the rejection should be withdrawn.

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H. Indefiniteness rejection

In the Office Action, claims 1-3, 5-8, 11-12, 15-17, and 21-27 are rejected under 35

U.S.C. 112, second paragraph, as indefinite. Specifically, it is alleged that:

Claim 1: "the front side" on line 3 and "the reverse side" on line 7 have insufficient

antecedent basis.

Claim 1: 2-D image having the appearance of 3-D image is confusing because the first

and second sets of lines are on opposite sides so they "no longer form a 2 dimensional

figure" (Office Action at page 3, last full paragraph).

· Dependent claims: "the lines" is unclear as to which set of lines.

Reconsideration and withdrawal of the rejection is respectfully requested. Claim 1 has

been amended to clarify "a front side" and "a reverse side" and the dependent claims have been

amended to clarify "the first and second sets of lines." Further, the language referring to "two-

dimensional" has been modified as discussed above in Part I. Accordingly, it is submitted that

the rejection should be withdrawn.

Ш Art rejections

In the Office Action, claims 1-3, 5-8, 11, 15, 17, and 21-27 are rejected under 35 U.S.C.

102(b) as anticipated by CA 23335239 ("Zeiter").

Further, in the Office Action, claims 1-3, 5-8, 11-12, 15-17, and 21-27 are rejected under

35 U.S.C. 103(a) as obvious over US 5,449,200 to Andric et al. ("Andric") in view of Zeiter.

Also, in the Office Action, claims 12 and 16 are rejected under 35 U.S.C. 103(a) as

obvious over Zeiter in view of US 6.402.888 to Doublet et al. ("Doublet").

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the same as a 2D pattern having a 3D effect, referring in particular to page 3, lines 5-20 of Zeiter

It is alleged in the Office Action, with respect to Zeiter, that the moiré effect in Zeiter is

for the use of a reflecting material to change the angle of reflection.

With respect to Andric, it is acknowledged in the Office Action that Andric does not

teach 2D indicia having the appearance of 3D images, but it is alleged that Zeiter suggests such

modification. In particular, it is alleged that "because the same lines and positioning are

employed teaching viewing angles, resolution, straight and curved lines, and lightness to

darkness effects, Zeiters' teaching embraces varying printing intensity and density of claim 2"

(Office Action at page 8, second paragraph).

Reconsideration and withdrawal of the rejections is respectfully requested.

As a preliminary, it is submitted that the rejection of claims 12 and 16 was traversed

along with the main rejection based on Zeiter in the last response.

Further, as discussed at the interview, it is submitted that despite the statement at page 3,

line 31 of Zeiter, the image in Zeiter does not have a "3D effect" as defined in the present

application, but is only an actual "three dimensional pattern," as this is explicitly stated in Zeiter

at page 3, lines 17-18.

More specifically, Fig. 8 of Zeiter shows that the sticks or crosses are simple 2D images

with lines that are either parallel or intersecting, but they do not create any visible "volume

effect" in the image of the sticks or crosses. What Zeiter means by "three dimensional moiré

effect" is that, since the lines are placed above each other due to the thickness of the sheet (in a

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"three dimensional pattern," Zeiter at page 3, lines 17-18), when the viewing angle changes, the

pattern also changes, similar to a "moiré" image.

In a traditional "moiré", the color or pattern change occurs because the weft and yarn

threads are in different planes, so that they are "immediately overlapping" as stated in Zeiter at

page 3, line 8. Reference is made to the attached excerpt of Smook, Handbook of Pulp & Paper

Terminology, 2nd Ed., Angus Wilde Publications Inc., Vancouver B.C., Canada (2001), which

provides a definition of "moiré" as follows:

MOIRE: Distracting pattern produced at regular intervals on halftone reproductions due to non-uniform overlapping of dots or

lines (i.e., two or more screens are not properly aligned."

Thus, according to this definition, the effect of a "moiré" is not a "relief" or "volume" effect,

only a "color or pattern change" effect due to "non-uniform overlapping" of indicia. This is the

case in Zeiter. The specificity of the "moiré" pattern of Zeiter is that "the already known

distances between neighbouring image elements in the moiré pattern have to be maintained"

(Zeiter at page 3, lines 20-21), i.e., the variation of the image with the viewing angle can be

controlled for a more specific "moiré" effect. Namely, in Zeiter, these distances are selected in

reference to the depth distance between lines, which is defined by the thickness of the sheet.

In summary, Zeiter can improve on a traditional "moiré" by controlling precisely how the

visible image varies when the viewing angle varies due to this controlled "three dimensional

pattern." However, the image formed by the lines that the viewer sees at any angle is always a

2D image without any relief or volume effect, as clearly illustrated by the fingers and crosses

reproduced on Fig. 8 of Zeiter.

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In contrast, in the presently claimed invention, the first set of lines printed on the front

side and the second set of lines printed on the reverse side are arranged to form an image when

observed in transmitted light, wherein the image has a 3D effect that is a relief or volume effect,

as recited in present claim 1. An advantage of this feature is that the more complex image, and

specifically, the relief or volume effect of the image, makes it possible to check the authenticity

of the security document with considerably improved accuracy, as compared to a simple 2D

image such as the sticks and crosses of Zeiter, which do not give any relief or volume effect to

the image when observed from any given angle. This feature of the presently claimed invention

and its advantages are not taught or suggested in Zeiter. Further, the other cited references fail to

remedy the deficiencies of Zeiter. Therefore, the present claims are not obvious over Zeiter

taken alone or in any combination with the other cited references.

In addition, with respect to the dependent claims, it is submitted that the combined

features of each of the dependent claims are not taught or suggested in the cited references taken

alone or in any combination.

In particular, with respect to claim 2, it is submitted that Zeiter does not have lines of

varying number density or printing density, let alone a suggestion to use such variations to create

a relief or volume effect in an image.

With respect to claims 28-29, it is submitted that Zeiter does not have complementing

indicia on both sides, let alone this combination forming an image with 3D effect.

With respect to claims 30-31, it is submitted that, although Zeiter has perfectly

superposed indicia, these indicia do not form a 3D effect in reflected light.

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Further, the other cited references fail to remedy the deficiencies of Zeiter.

Therefore, each of the dependent claims, and in particular each of claims 2 and 28-31 is

not obvious over Zeiter taken alone or in any combination with the other cited references.

In view of the above, it is submitted that the rejections should be withdrawn.

Conclusion

In conclusion, the invention as presently claimed is patentable. It is believed that the

claims are in allowable condition and a notice to that effect is earnestly requested.

If there is, in the Examiner's opinion, any outstanding issue and such issue may be

resolved by means of a telephone interview, the Examiner is respectfully requested to contact the

undersigned attorney at the telephone number listed below.

If this paper is not considered to be timely filed, the Applicants hereby petition for an

appropriate extension of the response period. Please charge the fee for such extension and any

other fees which may be required to Deposit Account No. 50-2866.

Respectfully submitted,

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